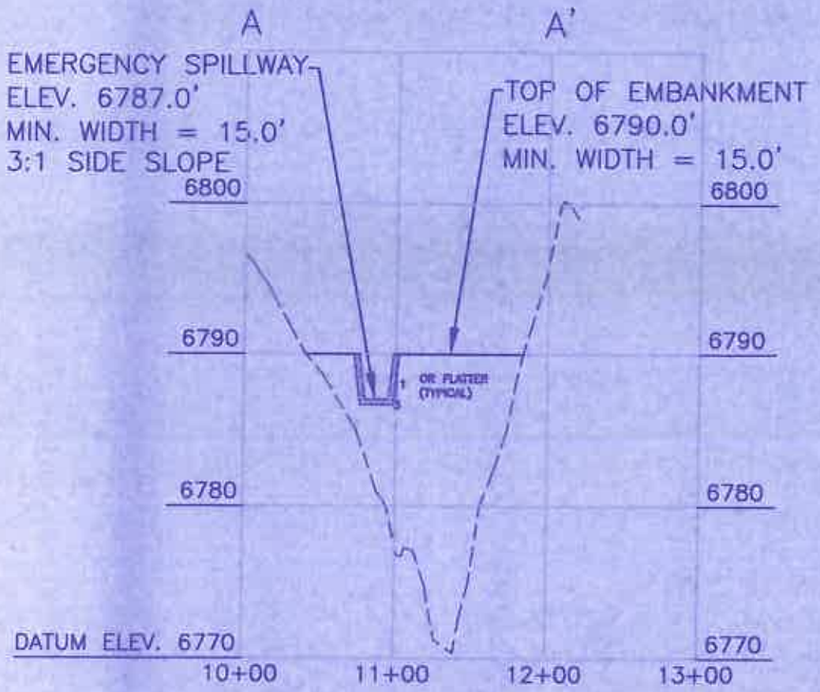
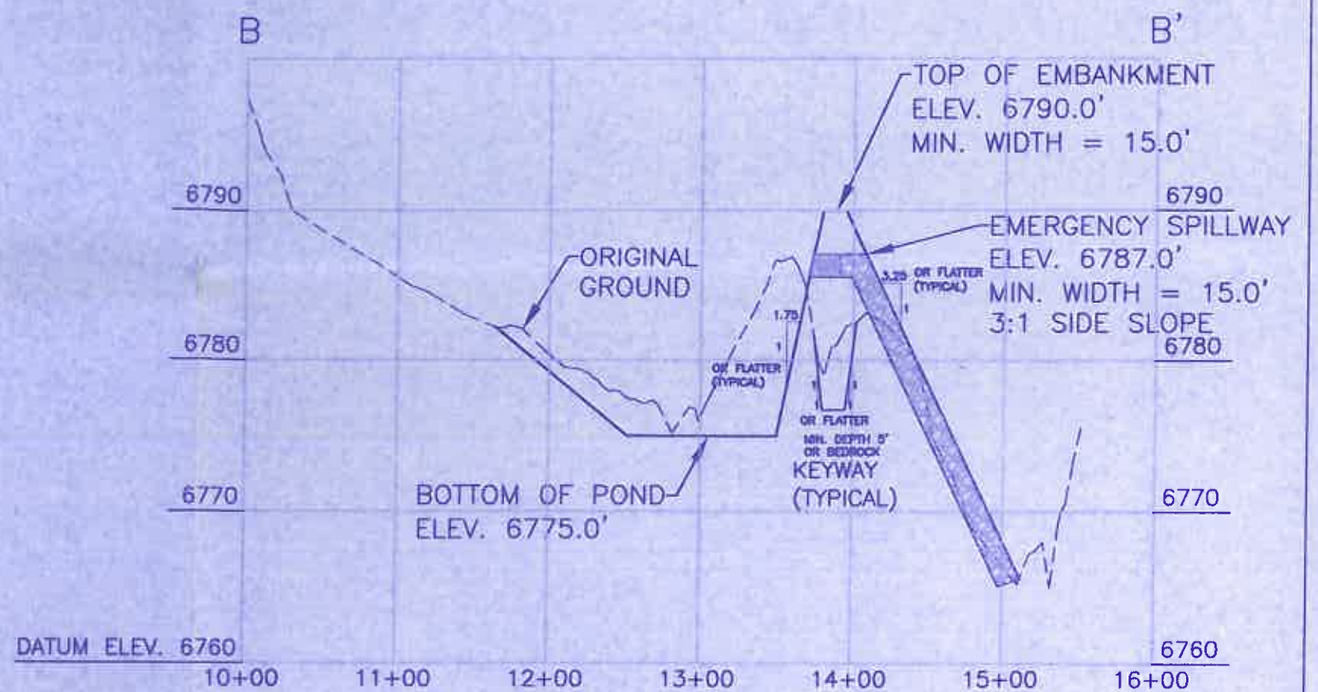
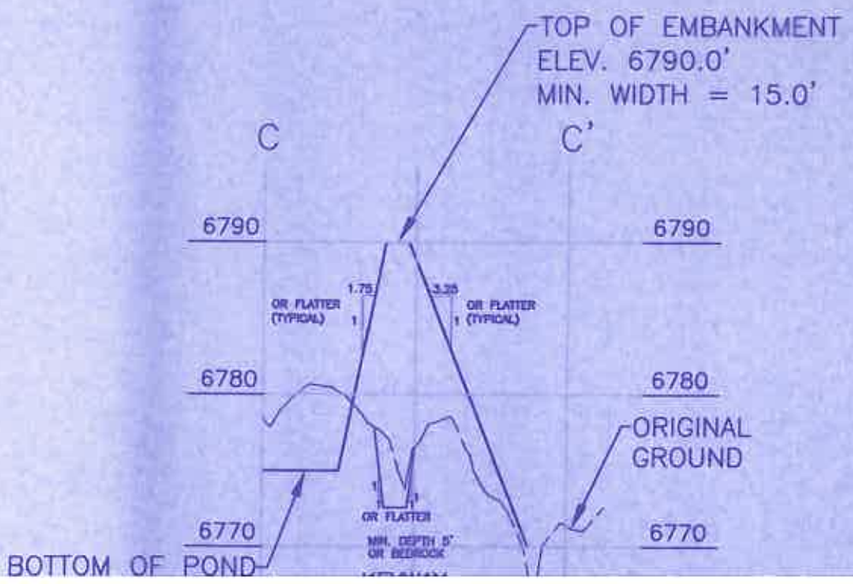


SECTION A – A'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

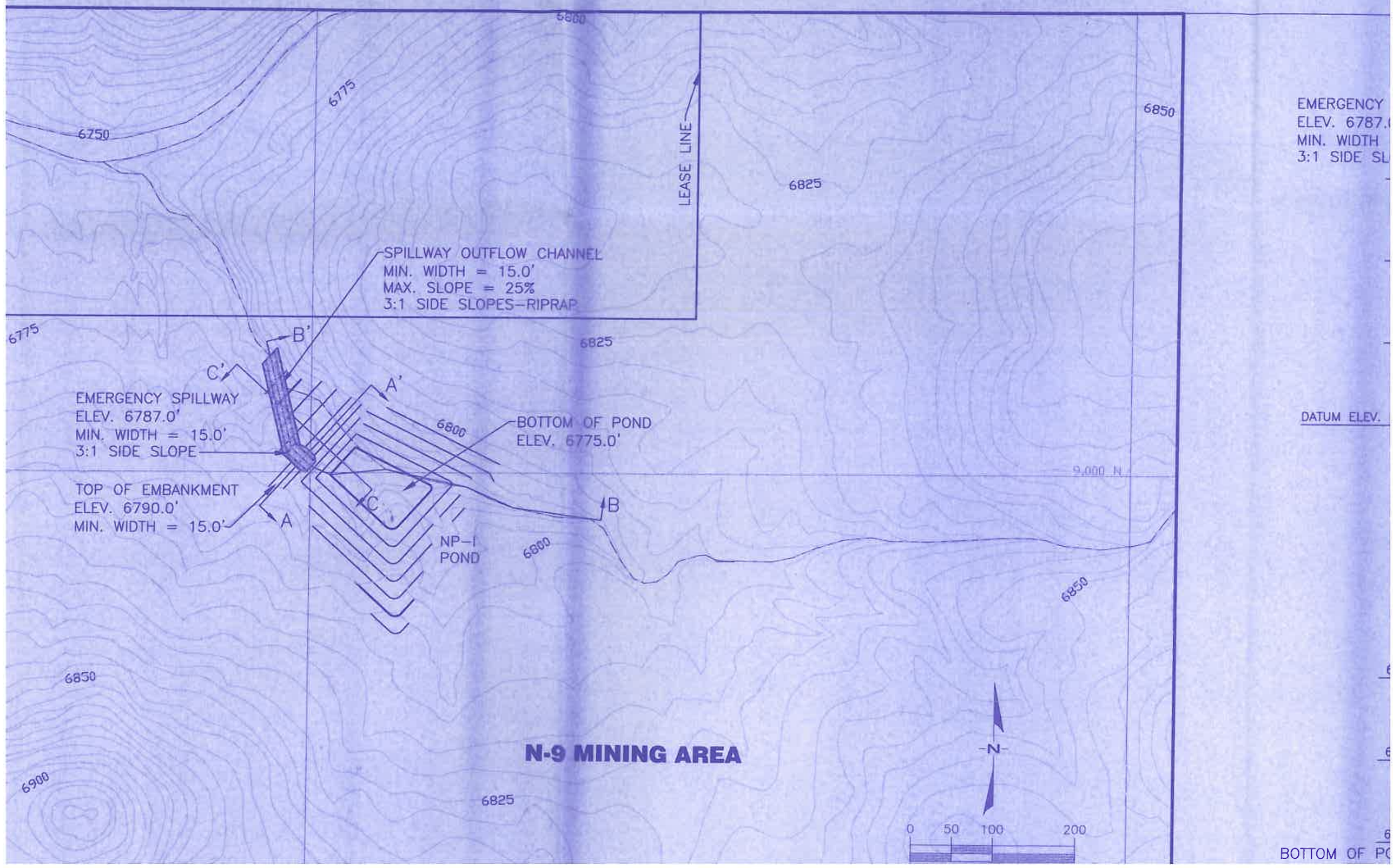


SECTION B – B'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

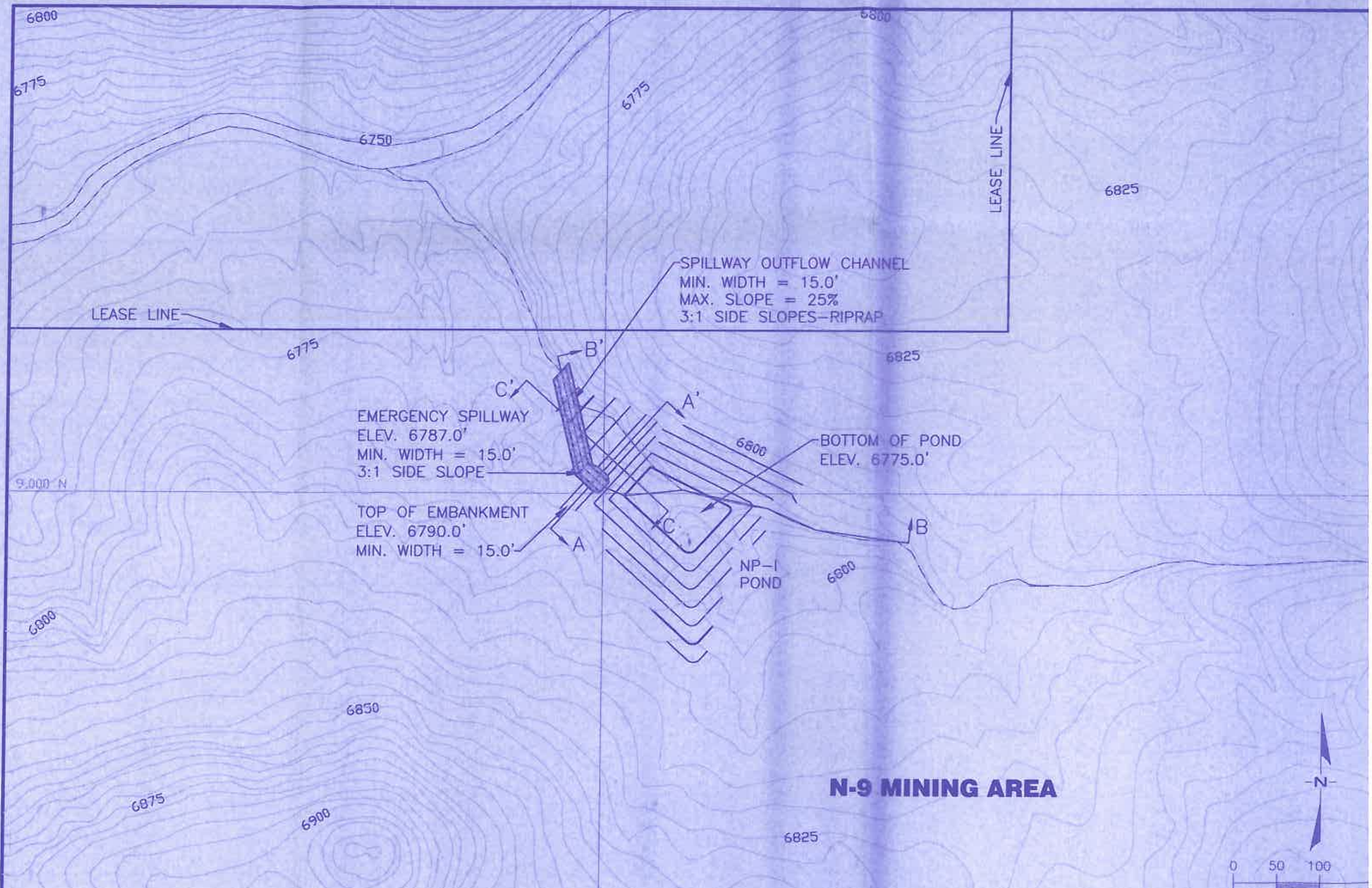


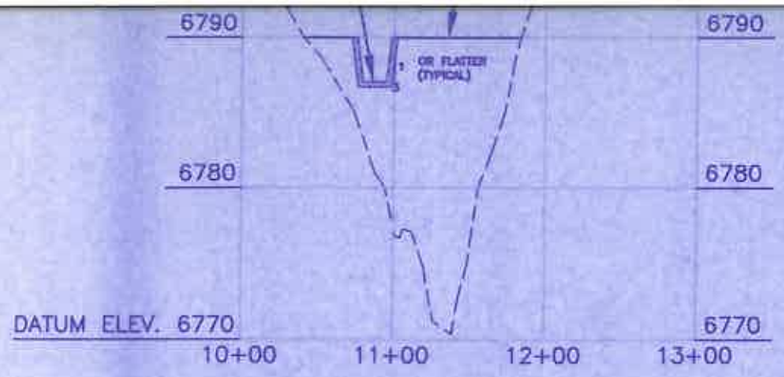
N9–I POND STAGE CAPACITY TABLE

ELEVATION (ft–msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac–ft)	DESCRIPTION
6775.0	0.0	0.14	0.00	BOTTOM OF POND
6780.0	5.0	0.27	1.03	INCISED ELEV.
6785.0	10.0	0.46	2.85	

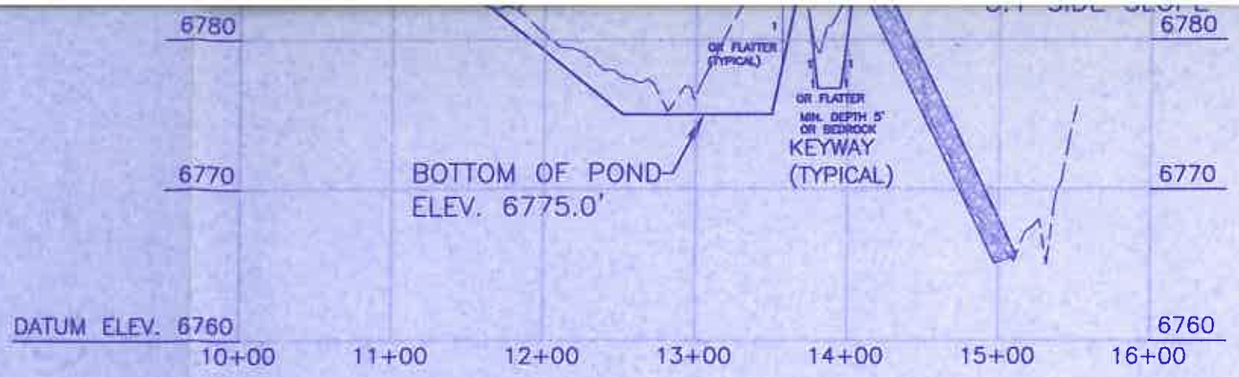


N-9 MINING AREA

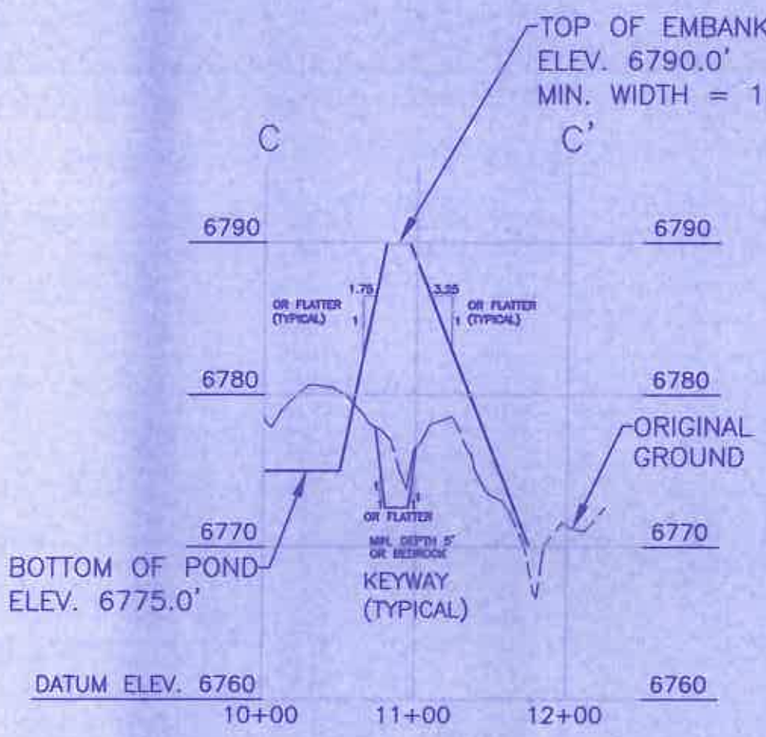

6800
6775
6750
6775
6800
LEASE LINE
6825
SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 15.0'
MAX. SLOPE = 25%
3:1 SIDE SLOPES–RIPRAP
LEASE LINE
6775
6825
B'
C'
A'
EMERGENCY SPILLWAY
ELEV. 6787.0'
MIN. WIDTH = 15.0'
3:1 SIDE SLOPE
6800
BOTTOM OF POND
ELEV. 6775.0'
9,000 N
TOP OF EMBANKMENT
ELEV. 6790.0'
MIN. WIDTH = 15.0'
A
C
B
NP–I
POND
6900
6800
6850
6875
6900
6825
N-9 MINING AREA
N
0
50
100



SECTION A – A'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'



SECTION B – B'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

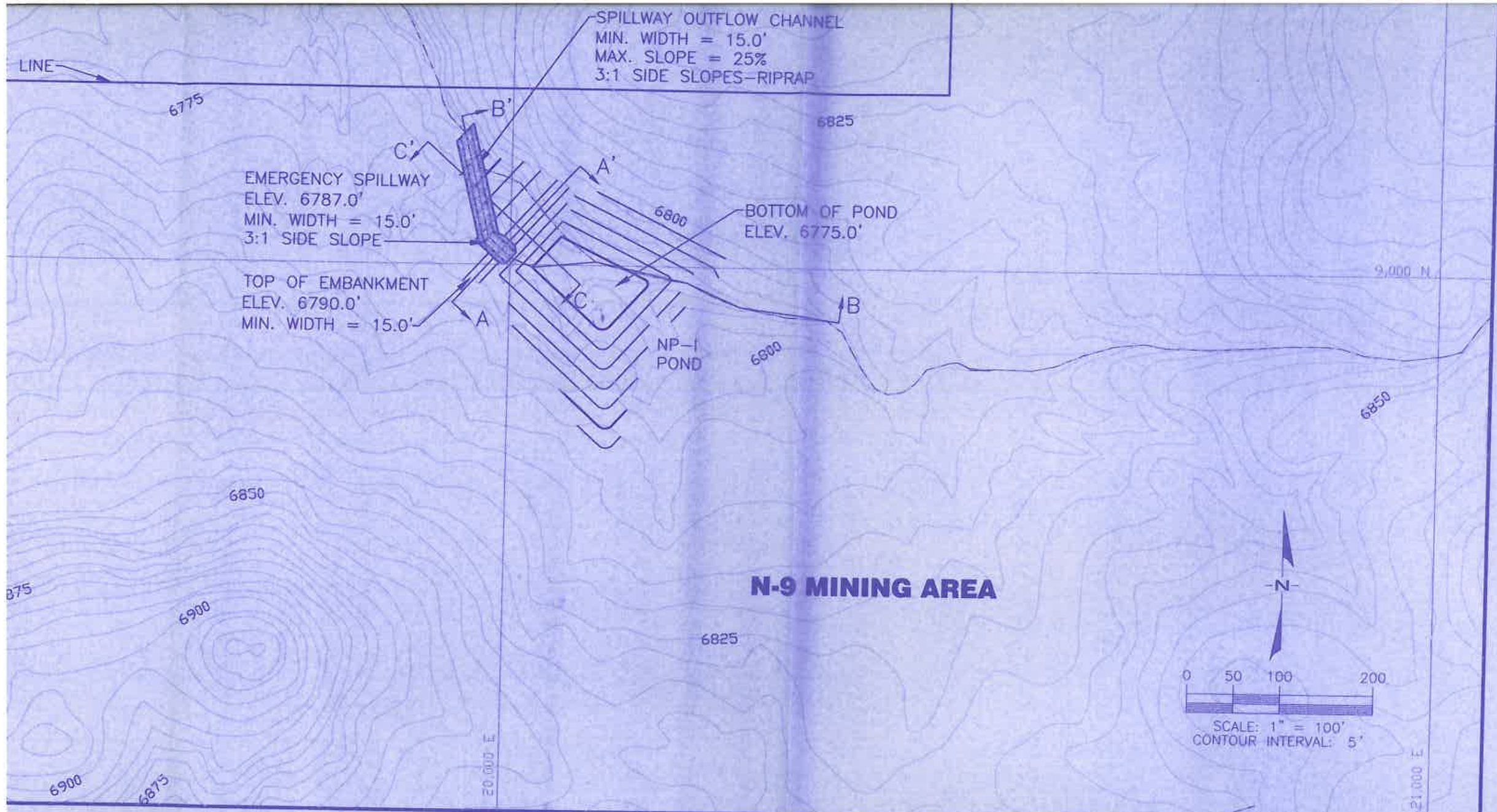


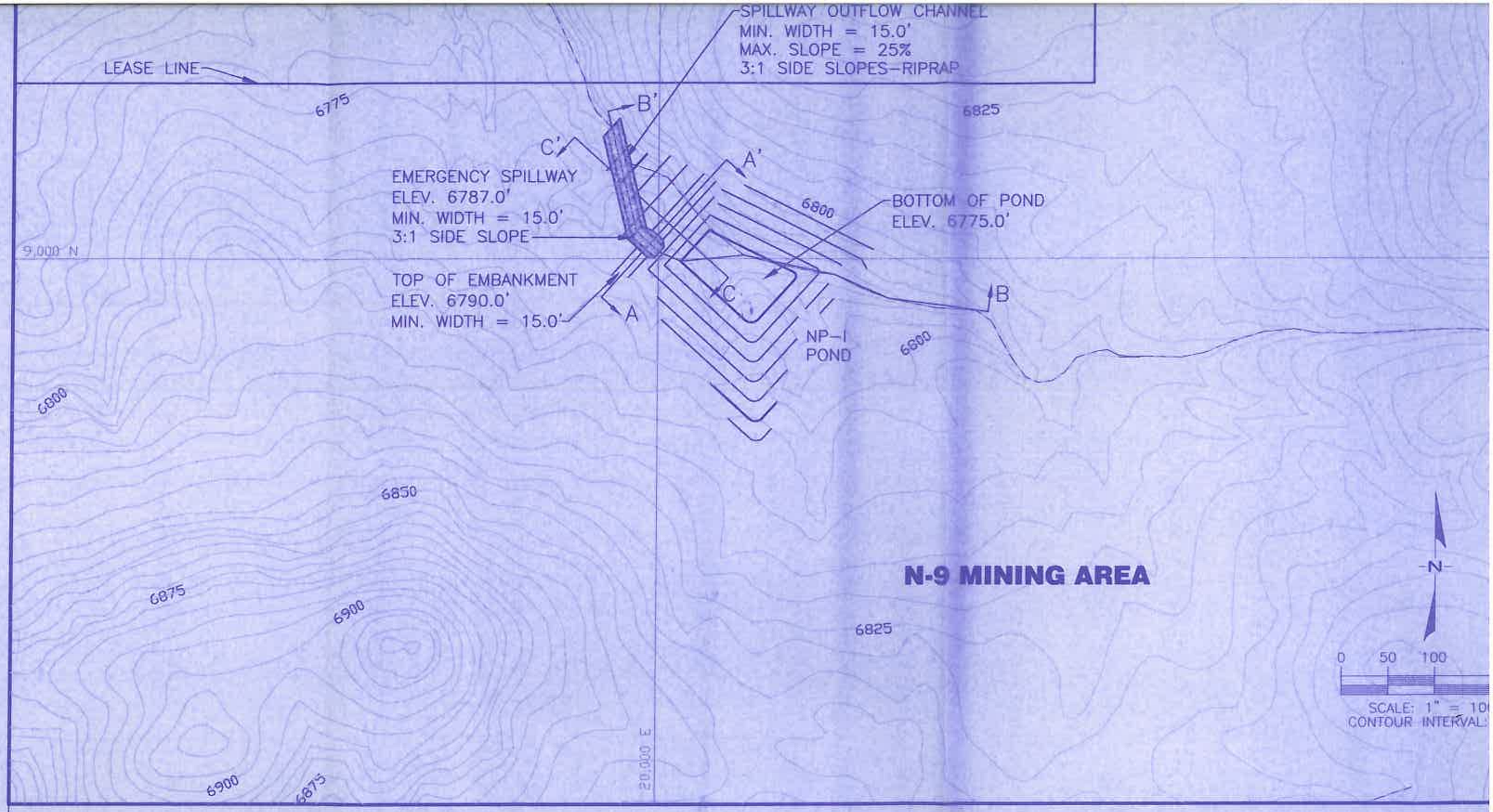
SECTION C – C'
SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

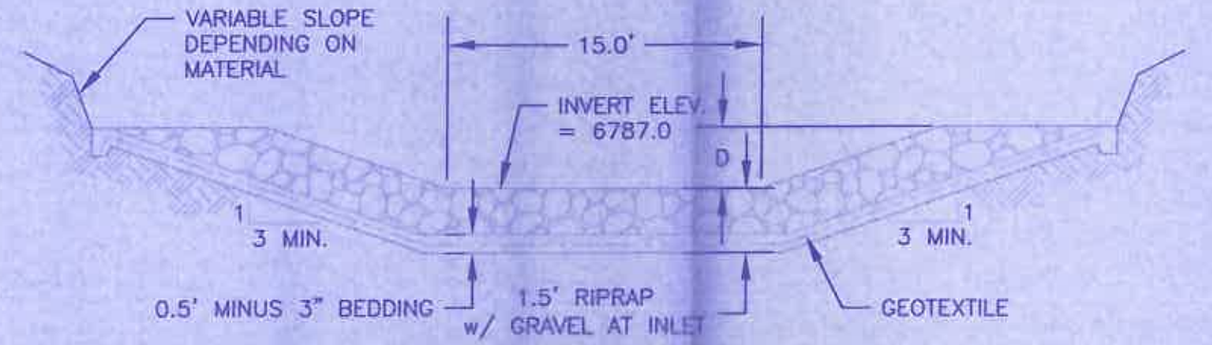
N9–I POND STAGE CAPACITY TABLE

ELEVATION (ft–msl)	STAGE (ft)	AREA (acres)	TOTAL CAPACITY (ac–ft)	DESCRIPTION
6775.0	0.0	0.14	0.00	BOTTOM OF POND
6780.0	5.0	0.27	1.03	INCISED ELEV.
6785.0	10.0	0.46	2.85	
6787.0	12.0	0.57	3.87	EMERGENCY SPILLWAY
6790.0	15.0	0.73	5.81	TOP OF EMBANKMENT

N-9 MINING AREA




SPILLWAY OUTFLOW CHANNEL
MIN. WIDTH = 15.0'
MAX. SLOPE = 25%
3:1 SIDE SLOPES-RIPRAP
LEASE LINE
6775
6825
B'
C'
A'
EMERGENCY SPILLWAY
ELEV. 6787.0'
MIN. WIDTH = 15.0'
3:1 SIDE SLOPE
6800
BOTTOM OF POND
ELEV. 6775.0'
9,000 N
TOP OF EMBANKMENT
ELEV. 6790.0'
MIN. WIDTH = 15.0'
A
C
B
NP-1
POND
6600
6800
6850
6875
6900
6900
6875
20,000 E
6825
N-9 MINING AREA
N
0
50
100
SCALE: 1" = 10
CONTOUR INTERVAL:



SPILLWAY MIN. D=1.5'
OUTFLOW CHANNEL MIN. D=1.5'

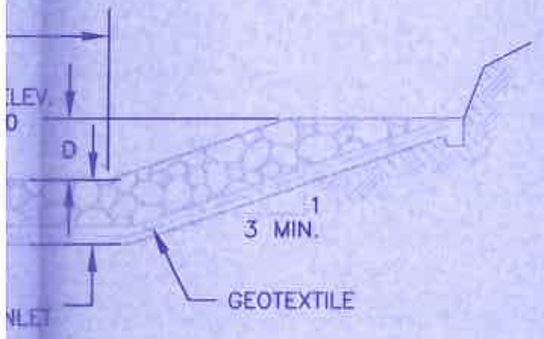
SECTION OF EMERGENCY SPILLWAY

NOT TO SCALE

N9-1 POND

SECTION C – C

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'



D=1.5'
MIN. D=1.5'

ENCY SPILLWAY

CALE

ND

NOTES:

1) General location, see Drawing No. 85400, Sheet K-
2) See Chapter 6, Black Mesa PAP for Construction
3) See Vol. 2, Chapter 6, Attachment D, Sections 1-
Geotechnical Evaluation.
4) Salvage topsoil in accordance with approved top
5) Reclamation of the distrubed area above the hig
accordance with the approved reclamation plan.
6) Ponding area side slopes, typical 3:1 slope or fla
topography.

WOODSON
ENGINEERING AND SURVEYING, INC.
124 N. ELDEN ST.
FLAGSTAFF, AZ 86001
PHONE: (928) 774-4636 FAX: (928) 774-4646

SECTION C – C'

SCALE: HORIZ. 1" = 100'
VERT. 1" = 10'

ENGINEER'S CERTIFICATION

JAMES SCHLENVOGT
Engineering Supervisor
Peabody Western Coal Company

ARIZONA P.E. 18782

Date: DEC 23 2004

NOTES:
1) General location, see Drawing No. 85400, Sheet K-6 and Drawing No. 85405.
2) See Chapter 6, Black Mesa PAP for Construction Specifications.
3) See Vol. 2, Chapter 6, Attachment D, Sections 1-3 for description of Geotechnical Evaluation.
4) Salvage topsoil in accordance with approved topsoil salvage plan.
5) Reclamation of the distrubed area above the high waterline shall be in accordance with the approved reclamation plan.
6) Ponding area side slopes, typical 3:1 slope or flatter and blend into natural topography.

EXHIBIT # 1
PROPOSED N9-1
SEDIMENTATION POND DESIGN

KAYENTA MINE
PEABODY WESTERN COAL COMPANY
P. O. BOX 650 KAYENTA, ARIZONA 86033

DESIGNED BY: GA	SCALE: AS NOTED
DRAWN BY: PEK	DRAWING DATE: 11-22-04
CHECKED BY: JGS	PHOTO DATE: 05-83
CONTOUR INTERVAL: 5 FT.	DWG FILE: POND N9-1.DWG

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ENGINEERING AND SURVEYING, INC.
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FLAGSTAFF, AZ 86001
PHONE: (928) 774-4636 FAX: (928) 774-4646